INDEX

PAGE

ADLER, A, A., Discussion on A Rational Method for Determining Sizes of Chimneys for Heating Boilers 55
Discussion on Insulation of a Private House 90
Air Conditioning Problems, Practical Application of Temperature, Humidity and Air Motion Data to, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Air Filters, An Improved Simple Method of Determining the Efficiency of, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Air Filters, Code for Testing 227
Air Filters, Design and Application of Oil Coated, by H. C. MURPHY 73
Air in Relation to Engineering Problems, Atmospheric, by HERMANN EISERT 351
Air Motion Data to Air Conditioning Problems, Practical Application of Temperature, Humidity and, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Air through Windows, Some Studies of Infiltration of, by A. C. ARMSTRONG 275
Air Turbulence Influences Efficiency of Hot Blast Heaters, How, by ROBERT W. ANGUS 341
ANDERSON, F. P., Discussion on Effect of Enclosures on Radiator Performance 272
ANGUS, ROBERT W., How Air Turbulence Influences Efficiency of Hot Blast Heaters 341
Annual Meeting, 1927, The Thirty-Third 1
Application of Oil Coated Air Filters, Design and, by H. C. MURPHY 73
Application of Temperature, Humidity and Air Motion Data to Air Conditioning Problems, Practical, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Application, Ten Fundamentals of Unit Ventilation and Their, by A. J. NESBITT 319
Architect, School Ventilation from the Viewpoint of the School, by WILLIAM B. ITTNER 107
ARMSTRONG, A. C., Some Studies of Infiltration of Air through Windows 275
ASHENHURST, H. S., Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building 245
Discussion on Insulation of a Private House 88
Aspects of Heating and Ventilating School Houses, Some Practical, by H. W. SCHMIDT 117

Atmosphere, Laboratory Investigations on Thermal Exchanges between the Human Body and the, by F. C. HOUGHTEN..... 230
Atmospheric Air in Relation to Engineering Problems, by HERMANN EISERT..... 351

Bearing on Operation, A Comparative Test of Two Types of Heating Systems, Pressure Differences in Steam Heating Systems and Their, by C. A. DUNHAM..... 181
BLANDING, G. H., Discussion on Design and Operation of Hotel Heating and Ventilating Systems..... 105
Discussion on Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems..... 187
Discussion on Insulation of a Private House..... 90
Blast Heaters, How Air Turbulence Influences Efficiency of Hot, by ROBERT W. ANGUS..... 341
Boilers, A Rational Method for Determining Sizes of Chimneys for Heating, by R. V. FROST..... 49
BOLSINGER, R. C., Discussion on Comparative Tests of Radiator Finishes..... 46
Discussion on Development of Built-In Heating Units..... 194
Discussion on Effect of Enclosures on Radiator Performance..... 273
Discussion on the Heating Effect of Radiators..... 38
BOLTON, R. P., Joint Discussion of Papers on Air Filters..... 69
Discussion on Insulation of a Private House..... 90
BOUSQUET, L'ROCHE G., Turbulence and Heat Transfer..... 195
Discussion on..... 203, 204, 206
BRABBÉE, DR. CHARLES, The Heating Effect of Radiators..... 33
Discussion on..... 38, 39
Discussion on Turbulence and Heat Transfer..... 203
BRACKEN, J. H., Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building..... 245
Building, How Design and Operation of Heating Plant Compare in an Insulated Office, by F. M. HOLBROOK..... 237

Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems, by F. C. HOUGHTEN AND M. E. O'CONNELL..... 289
Discussion on..... 313
CARRIER, W. H., Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building..... 246
CHESTER, THOMAS, Discussion on Ten Fundamentals of Unit Ventilation and Their Application..... 331
Chimneys for Heating Boilers, A Rational Method for Determining Sizes of, by R. V. FROST..... 49
Coated Air Filters, Design and Application of Oil, by H. C. MURPHY..... 73
Code for Testing Air Filters..... 227
Comfort and Health, The Contribution of the Engineers to, by EDWIN S. HALLETT 143
Comfort Zone for Men at Rest and Stripped to the Waist, The, by C. P. YAGLOU.. 165
Comparative Test of Two Types of Heating Systems, Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A, by C. A.

DUNHAM 181
Comparative Tests of Radiator Finishes, by WM. H. SEVERNS 41
Discussion on 46
Compare in an Insulated Office Building, How Design and Operation of Heating Plant, by F. M. HOLBROOK 237
Condensation Method for the Testing of Direct Radiators 19
Conditioning Problems, Practical Application of Temperature, Humidity and Air Motion Data to Air, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
CONNELL, R. F., Discussion on A Rational Method for Determining Sizes of Chimneys for Heating Boilers 55
Discussion on Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 315
Contribution of the Engineers to Comfort and Health, The, by EDWIN S. HALLETT 143

Data to Air Conditioning Problems, Practical Application of Temperature, Humidity and Air Motion, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
DAY, V. S., Joint Discussion of Papers on Air Filters 69
Dehumidification Methods, by MALCOLM C. W. TOMLINSON 209
Discussion on 217
Design and Application of Oil Coated Air Filters, by H. C. MURPHY 73
Joint Discussion of Papers on Air Filters 67
Design and Operation of Heating Plant Compare in an Insulated Office Building, How, by F. M. HOLBROOK 237
Design and Operation of Hotel Heating and Ventilating Systems, by BENJAMIN NATKIN 93
Discussion on 105
Designing a Gravity Extended Surface Heating Unit, by R. N. TRANE 247
Discussion on 255
Determining Sizes of Chimneys for Heating Boilers, A Rational Method for, by R. V. FROST 49
Determining the Efficiency of Air Filters, An Improved Simple Method of, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Development of Built-In Heating Units, by G. E. OTIS 189
Discussion on 193
Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems, Pressure, by C. A. DUNHAM 181
Discussion of Papers on Air Filters, Joint 67
Discussion on 55
A Rational Method for Determining Sizes of Chimneys for Heating Boilers, by R. V. FROST 49
Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems .. 313
Comparative Tests of Radiator Finishes 46
Dehumidification Methods 217
Design and Operation of Hotel Heating and Ventilating Systems 105
Designing a Gravity Extended Surface Heating Unit 255

Development of Built-In Heating Units 193
Effect of Enclosures on Radiator Performance 271
Heat Transfer in Tubular Water Heaters 340
How Design and Operation of Heating Plant Compare in an Insulated Office Building 244
Insulation of a Private House 87
Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems 187
Some Studies of Infiltration of Air through Windows 285
Ten Fundamentals of Unit Ventilation and Their Application 328
The Heating Effect of Radiators 38
Turbulence and Heat Transfer 204
DOUGHTY, C. J., Discussion on The Heating Effect of Radiators 39
DRISCOLL, WM. H., Discussion on Design and Operation of Hotel Heating and Ventilating Systems 105
Discussion on Designing a Gravity Extended Surface Heating Unit 256, 257
DUNHAM, C. A., Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems .. 181
Discussion on 188
Effect of Enclosures on Radiator Performance, by A. P. KRATZ AND M. K. FAHNESTOCK 259
Discussion on 271

Effect of Radiators, The Heating, by DR. CHARLES BRABBÉE 33
Efficiency of Air Filters, An Improved Simple Method of Determining the, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Efficiency of Hot Blast Heaters, How Air Turbulence Influences, by ROBERT W. ANGUS 341
EISERT, HERMANN, Atmospheric Air in Relation to Engineering Problems 351
Enclosures on Radiator Performance, Effect of, by A. P. KRATZ AND M. K. FAHNESTOCK 259
Engineering Problems, Atmospheric Air in Relation to, by HERMANN EISERT 351
Engineers to Comfort and Health, The Contribution of the, by EDWIN S. HALLETT 143
EVANS, EDWIN C., Discussion on The Heating Effect of Radiators 39
Discussion on Development of Built-In Heating Units 194

FABER, G. S., Discussion on The Heating Effect of Radiators 39
FAHNESTOCK, M. K., AND KRATZ, A. P., Effect of Enclosures on Radiator Performance 259
Filters, An Improved Simple Method of Determining the Efficiency of Air, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Filters, Code for Testing Air 227
Filters, Design and Application of Oil Coated Air, by H. C. MURPHY 73
Finishes, Comparative Tests of Radiator, by WM. H. SEVERNS 41
FRANK, MRS. OLIVE E., Heat Transfer in Tubular Water Heaters 333
Discussion on 340
Discussion on Design and Operation of Hotel Heating and Ventilating Systems 105
FROST, R. V., A Rational Method for Determining Sizes of Chimneys for Heating

Boilers 49
Discussion on 55
Discussion on The Heating Effect of Radiators 38
Fundamentals of Unit Ventilation and Their Application, Ten, by A. J. NESBITT .. 319

GANT, H. P., Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building 245, 246
Discussion on Turbulence and Heat Transfer 204
GILLHAM, W. E., Discussion on Comparative Tests of Radiator Finishes 46
Gravity Extended Surface Heating Unit, Designing a, by R. N. TRANE 247

HALLETT, EDWIN S., The Contribution of the Engineers to Comfort and Health 143
Discussion on Some Studies of Infiltration of Air through Windows 287
HART, H. M., Discussion on Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 317
Discussion on Effect of Enclosures on Radiator Performance 271
Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building 245, 246
Discussion on Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems 187, 188
Discussion on Ten Fundamentals of Unit Ventilation and Their Application. 331
Joint Discussion of Papers on Air Filters 71
Health, The Contribution of the Engineers to Comfort and, by EDWIN S. HALLETT 143
Heat Flow through a Roof, Report on, by CARL ZOBEL 359
Heat Transfer, Turbulence and, by L'ROCHE G. BOUSQUET 195
Heat Transfer in Tubular Water Heaters, by MRS. OLIVE E. FRANK 333
Discussion on 340
Heaters, Heat Transfer in Tubular Water, by MRS. OLIVE E. FRANK 333
Heaters, How Air Turbulence Influences Efficiency of Hot Blast, by ROBERT W. ANGUS 341
Heating Boilers, A Rational Method for Determining Sizes of Chimneys for, by R. V. FROST 49
Heating Effect of Radiators, The, by DR. CHARLES BRABBÉE 33
Discussion on 38
Heating Plant Compare in an Insulated Office Building, How Design and Operation of, by F. M. HOLBROOK 237
Heating Risers for One- and Two-Pipe Systems, Capacity of Up-Feed Steam, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems, Pressure Differences in Steam, by C. A. DUNHAM 181
Heating Systems, Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of, by C. A. DUNHAM 181
Heating Unit, Designing a Gravity Extended Surface, by R. N. TRANE 247
Heating Units, Development of Built-In, by G. E. OTIS 189
Heating and Ventilating School Houses, Some Practical Aspects of, by H. W.

SCHMIDT 117
Heating and Ventilating Systems, Design and Operation of Hotel, by BENJAMIN NATKIN 93
HOFFMAN, J. D., Discussion on Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems 187, 188
HOLBROOK, F. M., How Design and Operation of Heating Plant Compare in an Insulated Office Building 237
Discussion on 245, 246
Hot Blast Heaters, How Air Turbulence Influences Efficiency of, by ROBERT W. ANGUS 341
Hotel Heating and Ventilating Systems, Design and Operation of, by BENJAMIN NATKIN 93
HOUGHTEN, F. C., Laboratory Investigations on Thermal Exchanges between the Human Body and the Atmosphere .....
Laboratory Work on Infiltration 230
Discussion on Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 225, 313, 315, 316, 317
HOUGHTEN, F. C., AND INGELS, MARGARET, Infiltration through Plastered and Unplastered Brick Walls 377
HOUGHTEN, F. C., AND O'CONNELL, M. E., Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 289
HOUGHTEN, F. C., TEAGUE, W. W., AND MILLER, W. E., Practical Application of Temperature, Humidity and Air Motion Data to Air Conditioning Problems 151
House, Insulation of a Private, by LEE NUSBAUM 81
Houses, Some Practical Aspects of Heating and Ventilating School, by H. W. SCHMIDT 117
How Air Turbulence Influences Efficiency of Hot Blast Heaters, by ROBERT W. ANGUS 341
How Design and Operation of Heating Plant Compare in an Insulated Office Building, by F. M. HOLBROOK 237
Discussion on 244
Human Body and the Atmosphere, Laboratory Investigations on Thermal Exchanges between the, by F. C. HOUGHTEN 230
Humidity and Air Motion Data to Air Conditioning Problems, Practical Application of Temperature, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151

Improved Simple Method of Determining the Efficiency of Air Filters, An, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Joint Discussion of Papers on Air Filters 67
Infiltration of Air through Windows, Some Studies of, by A. C. ARMSTRONG 275
Infiltration, Laboratory Work on, by F. C. HOUGHTEN 225
Infiltration through Plastered and Unplastered Brick Walls, by F. C. HOUGHTEN AND MARGARET INGELS 377
INGELS, MARGARET, AND HOUGHTEN, F. C., Infiltration through Plastered and Unplastered Brick Walls 377

In Memoriam 387
Insulated Office Building, How Design and Operation of Heating Plant Compare in an, by F. M. HOLBROOK 237
Insulation of a Private House, by LEE NUSBAUM 81
Discussion on 87
Investigations on Thermal Exchanges between the Human Body and the Atmosphere, Laboratory, by F. C. HOUGHTEN 230
ITTNER, WILLIAM B., School Ventilation from the Viewpoint of the School Architect 107

Joint Discussion of Papers on Air Filters 67

KRATZ, A. P., AND FAHNESTOCK, M. K., Effect of Enclosures on Radiator Performance 259
KRATZ, A. P., Discussion on Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 316
Discussion on Effect of Enclosures on Radiator Performance 271, 272, 273
Discussion on Insulation of a Private House 89

Laboratory Investigations on Thermal Exchanges between the Human Body and the Atmosphere, by F. C. HOUGHTEN 230
Laboratory Work on Infiltration, by F. C. HOUGHTEN 225
LANGENBERG, E. B., Joint Discussion of Papers on Air Filters 71
Layman Thinks about School-Room Ventilation, What the, by W. R. McCORNACK 125
LEWIS, J. C., Discussion on Comparative Tests of Radiator Finishes 47
Discussion on The Heating Effect of Radiators 39
LEWIS, S. R., Discussion on Insulation of a Private House 88
Discussion on The Heating Effect of Radiators 38
LEWIS, THORNTON, Discussion on Ten Fundamentals of Unit Ventilation and Their Application 328, 330
Discussion on The Heating Effect of Radiators 38
Discussion on Turbulence and Heat Transfer 203
LINN, H. R., Discussion on Heat Transfer in Tubular Water Heaters 340
Discussion on Insulation of a Private House 90
LYLE, J. I., Discussion on Dehumidification Methods 217
Discussion on Turbulence and Heat Transfer 203

MACINTIRE, H. J., Discussion on Dehumidification Methods 218
MATHIS, EUGENE AND TUFTY, HAROLD G., An Improved Simple Method of Determining the Efficiency of Air Filters 57
MATHIS, EUGENE, Joint Discussion of Papers on Air Filters 68
McCOLL, J. R., Discussion on Insulation of a Private House 89
McCORNACK, W. R., What the Layman Thinks about School-Room Ventilation .. 125
Meeting, 1927, The Thirty-Third Annual 1
Meeting, 1927, The Thirty-Third Semi-Annual 221
Men at Rest and Stripped to the Waist, The Comfort Zone for, by C. P. YAGLOU .. 165

MENSING, F. D., Discussion on Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 316
Discussion on Designing a Gravity Extended Surface Heating Unit 255, 257
Discussion on The Heating Effect of Radiators 38
Method for Determining Sizes of Chimneys for Heating Boilers, A Rational, by R. V. FROST 49
Method for the Testing of Direct Radiators, Condensation 19
Method of Determining the Efficiency of Air Filters, An Improved Simple, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Methods, Dehumidification, by MALCOLM C. W. TOMLINSON 209
MILLER, W. E., HOUGHTEN, F. C. AND TEAGUE, W. W., Practical Application of Temperature, Humidity and Air Motion Data to Air Conditioning Problems 151
Motion Data to Air Conditioning Problems, Practical Application of Temperature, Humidity and Air, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
MURPHY, H. C., Design and Application of Oil Coated Air Filters 73
Joint Discussion of Papers on Air Filters 69, 71

NATKIN, BENJAMIN, Design and Operation of Hotel Heating and Ventilating Systems 93
Discussion on 105
NESBITT, A. J., Ten Fundamentals of Unit Ventilation and Their Application 319
Discussion on 329, 330, 331
Discussion on Designing a Gravity Extended Surface Heating Unit 256
Discussion on Effect of Enclosures on Radiator Performance 272, 273
NOBIS, H. M., Discussion on Designing a Gravity Extended Surface Heating Unit 255
Discussion on Effect of Enclosures on Radiator Performance 272
NUSBAUM, LEE, Insulation of a Private House 81
Discussion on 89, 91

O'CONNELL, M. E., AND HOUGHTEN, F. C., Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe Systems 289
Office Building, How Design and Operation of Heating Plant Compare in an Insulated, by F. M. HOLBROOK 237
Oil Coated Air Filters, Design and Application of, by H. C. MURPHY 73
One- and Two-Pipe Systems, Capacity of Up-Feed Steam Heating Risers for, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Operation of Heating Plant Compare in an Insulated Office Building, How Design and, by F. M. HOLBROOK 237
Operation of Hotel Heating and Ventilating Systems, Design and, by BENJAMIN NATKIN 93
Operation, A Comparative Test of Two Types of Heating Systems, Pressure Differences in Steam Heating Systems and Their Bearing on, by C. A. DUNHAM 181
OTIS, G. E., Development of Built-In Heating Units 189

Performance, Effect of Enclosures on Radiator, by A. P. KRATZ AND M. K.

FAHNESTOCK 259
Pipe Systems, Capacity of Up-Feed Steam Heating Risers for One- and Two-, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Plant Compare in an Insulated Office Building, How Design and Operation of Heating, by F. M. HOLBROOK 237
Practical Application of Temperature, Humidity and Air Motion Data to Air Conditioning Problems, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Practical Aspects of Heating and Ventilating School Houses, Some, by H. W. SCHMIDT 117
Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems, by C. A. DUNHAM 181
Discussion on 187
Problems, Atmospheric Air in Relation to Engineering, by HERMANN EISERT 351
Problems, Practical Application of Temperature, Humidity and Air Motion Data to Air Conditioning, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Program—33rd Annual Meeting 31
33rd Semi-Annual Meeting 235

Radiator Finishes, Comparative Tests of, by WM. H. SEVERNS 41
Radiator Performance, Effect of Enclosures on, by A. P. KRATZ AND M. K. FAHNESTOCK 259
Radiators, Condensation Method for the Testing of Direct 19
Radiators, The Heating Effect of, by DR. CHARLES BRABBÉE 33
RANDALL, W. C., Discussion on Heat Transfer in Tubular Water Heaters 340
Discussion on Some Studies of Infiltration of Air through Windows 285
Rational Method for Determining Sizes of Chimneys for Heating Boilers, A, by R. V. FROST 49
Discussion on 55
Relation to Engineering Problems, Atmospheric Air in, by HERMANN EISERT 351
Report of
Certified Public Accountant 6
Committee on Code for Testing Air Filters 23
Committee on Research 11, 221
Committee on Subjects 15
Council 3
Finance Committee 5
Membership Committee 4
Progress of the Heat Transmission Investigation 21, 222
Publication Committee 11
Research Laboratory Work in 1926 13
Rochester Committee 25
Technical Advisory Committee on Infiltration 225
Technical Advisory Committee on Radiation 18, 224
Technical Advisory Committee on Temperature, Humidity and Air Motion 21, 229
Report on Heat Flow through a Roof, by CARL ZOBEL 359

Risers for One- and Two-Pipe Systems, Capacity of Up-Feed Steam Heating, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
ROBB, J. M., Discussion on Development of Built-In Heating Units 194
ROWLEY, F. B., Joint Discussion of Papers on Air Filters 67
Discussion on Ten Fundamentals of Unit Ventilation and Their Application .. 328

SCHMIDT, H. W., Some Practical Aspects of Heating and Ventilating School Houses 117
School Architect, School Ventilation from the Viewpoint of the, by WILLIAM B. ITTNER 107
School Houses, Some Practical Aspects of Heating and Ventilating, by H. W. SCHMIDT 117
School-Room Ventilation, What the Layman Thinks about, by W. R. McCORNACK 125
School Ventilation from the Viewpoint of the School Architect, by WILLIAM B. ITTNER 107
Semi-Annual Meeting, 1927, The 221
SEVERNS, WM. H., Comparative Tests of Radiator Finishes 41
Simple Method of Determining the Efficiency of Air Filters, An Improved, by HAROLD G. TUFTY AND EUGENE MATHIS 57
Sizes of Chimneys for Heating Boilers, A Rational Method for Determining, by R. V. FROST 49
Some Practical Aspects of Heating and Ventilating School Houses, by H. W. SCHMIDT 117
Some Studies of Infiltration of Air through Windows, by A. C. ARMSTRONG 275
Discussion on 285
SOULE, L. C., Discussion on Turbulence and Heat Transfer 204
SPAFFORD, L. B., Discussion on Comparative Tests of Radiator Finishes 47
Steam Heating Risers for One- and Two-Pipe Systems, Capacity of Up-Feed, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems, Pressure Differences in, by C. A. DUNHAM 181
Studies of Infiltration of Air through Windows, Some, by A. C. ARMSTRONG 275
Surface Heating Unit, Designing a Gravity Extended, by R. N. TRANE 247
Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems, Pressure Differences in Steam Heating, by C. A. DUNHAM 181
Systems, Capacity of Up-Feed Steam Heating Risers for One- and Two-Pipe, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Systems, Design and Operation of Hotel Heating and Ventilating, by BENJAMIN NATKIN 93
Systems, Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating, by C. A. DUNHAM 181

TEAGUE, W. W., HOUGHTEN, F. C. AND MILLER, W. E., Practical Application of Temperature, Humidity and Air Motion Data to Air Conditioning Problems 151

Temperature, Humidity and Air Motion Data to Air Conditioning Problems, Practical Application of, by F. C. HOUGHTEN, W. W. TEAGUE AND W. E. MILLER 151
Ten Fundamentals of Unit Ventilation and Their Application, by A. J. NESBITT .. 319
Discussion on 328
Test of Two Types of Heating Systems, Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative, by C. A. DUNHAM 181
Testing Air Filters, Code for 227
Testing of Direct Radiators, Condensation Method for the 19
Tests of Radiator Finishes, Comparative, by WM. H. SEVERNS 41
Thermal Exchanges between the Human Body and the Atmosphere, Laboratory Investigations on, by F. C. HOUGHTEN 230
Thirty-Third Annual Meeting, 1927, The 1
TOMLINSON, M. C. W., Dehumidification Methods 209
Discussion on 218
Discussion on Development of Built-In Heating Units 193
Discussion on Insulation of a Private House 87
Discussion on Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two Types of Heating Systems 187, 188
Joint Discussion of Papers on Air Filters 71
TRANE, R. N., Designing a Gravity Extended Surface Heating Unit 247
Discussion on 256
Transfer in Tubular Water Heaters, Heat, by MRS. OLIVE E. FRANK 333
Transfer, Turbulence and Heat, by L'ROCHE G. BOUSQUET 195
Tubular Water Heaters, Heat Transfer in, by MRS. OLIVE E. FRANK 333
TUFTY, HAROLD G., AND MATHIS, EUGENE, An Improved Simple Method of Determining the Efficiency of Air Filters 57
Turbulence and Heat Transfer, by L'ROCHE G. BOUSQUET 195
Discussion on 203
Turbulence Influences Efficiency of Hot Blast Heaters, How Air, by ROBERT W. ANGUS 341
Two-Pipe Systems, Capacity of Up-Feed Steam Heating Risers for One- and, by F. C. HOUGHTEN AND M. E. O'CONNELL 289
Types of Heating Systems, Pressure Differences in Steam Heating Systems and Their Bearing on Operation—A Comparative Test of Two, by C. A. DUNHAM 181

Unit, Designing a Gravity Extended Surface Heating, by R. N. TRANE 247
Unit Ventilation and Their Application, Ten Fundamentals of, by A. J. NESBITT .. 319
Units, Development of Built-In Heating, by G. E. OTIS 189
Up-Feed Steam Heating Risers for One- and Two-Pipe Systems, Capacity of, by F. C. HOUGHTEN AND M. E. O'CONNELL 289

Ventilating School Houses, Some Practical Aspects of Heating and, by H. W. SCHMIDT 117
Ventilating Systems, Design and Operation of Hotel Heating and, by BENJAMIN NATKIN 93

Ventilation and Their Application, Ten Fundamentals of Unit, by A. J. NESBITT.. 319
Ventilation from the Viewpoint of the School Architect, School, by WILLIAM B. ITTNER..... 107
Ventilation, What the Layman Thinks about School-Room, by W. R. McCORNACK..... 125
Viewpoint of the School Architect, School Ventilation from the, by WILLIAM B. ITTNER..... 107

Waist, The Comfort Zone for Men at Rest and Stripped to the, by C. P. YAGLOU.. 165
Walls, Infiltration through Plastered and Unplastered Brick, by F. C. HOUGHTEN AND MARGARET INGELS..... 377
Water Heaters, Heat Transfer in Tubular, by MRS. OLIVE E. FRANK..... 333
What the Layman Thinks about School-Room Ventilation, by W. R. McCORNACK..... 125
Whitten, H. W., Discussion on Some Studies of Infiltration of Air through Windows..... 287, 288
WILLARD, A. C., Discussion on Comparative Tests of Radiator Finishes..... 46, 47
Discussion on Designing a Gravity Extended Surface Heating Unit..... 256
Discussion on Development of Built-In Heating Units..... 193
Discussion on Heat Transfer in Tubular Water Heaters..... 340
Discussion on How Design and Operation of Heating Plant Compare in an Insulated Office Building..... 244
Windows, Some Studies of Infiltration of Air through, by A. C. ARMSTRONG..... 275
WOOLSTON, A. H., Discussion on Designing a Gravity Extended Surface Heating Unit..... 256
Discussion on Effect of Enclosures on Radiator Performance..... 272
Discussion on Ten Fundamentals of Unit Ventilation and Their Application..... 329, 330
WORM, AMDI, Discussion on Insulation of a Private House..... 88

YAGLOU, C. P., The Comfort Zone for Men at Rest and Stripped to the Waist..... 165

ZOBEL, CARL, Report on Heat Flow through a Roof..... 359
Zone for Men at Rest and Stripped to the Waist, The Comfort, by C. P. YAGLOU.. 165